



# CNG Water Separators

Models | NG0006 to NG1500

Flow Rates 7.6 SCFM (12.1 Nm<sup>3</sup>/hr) to 1926.7 SCFM (3092.3 Nm<sup>3</sup>/hr)

**Our New Alpha Series CNG Water Separators are specially designed to remove up to 99% of bulk water, helping to protect your natural gas system from damage that is caused by high moisture levels.**

By combining our proven Alpha centrifugal technology with a specialist construction for use with Compressed Natural Gas (CNG), this product delivers market leading water removal efficiencies and continuously low differential pressure.

The custom engineered centrifugal module features unique vanes and a vortex arrestor to eliminate points of low efficiency and prevent re-entrainment, ensuring minimal operating pressure loss and exceptional liquid removal. This product also requires no replacement components, making Walker Filtration's CNG Water Separators a viable and cost-effective solution for removing bulk water from your natural gas pipeline.

**Removes up to 99% of bulk water when tested in accordance with ISO 12500-4**



**Modular Filter**

Low cost connecting kits and new filter head design enables easy close coupling assembly



**Robust Aluminium filter assemblies**

Featuring guaranteed safe housing closure with rotational safety top



**Viton seals & O-rings**

For compatibility with natural gas

- **Energy Saving** Water Separators operate with consistently low differential pressure, reducing both energy consumption and operating costs
- **Market Leading Performance** Custom engineered to protect your natural gas system and sensitive instruments from contamination
- **Corrosion Protection** High-grade, cast aluminium filter housing with internal and external electrophoretic paint finished, followed by tough exterior polyester powder coating
- **Conforms with International Standards** Validated according to ISO 8573, all filters are CRN registered and comply with EU pressure Equipment Directive 2014/68/EU (PED)





For further information please call: +44 (0) 191 417 7816

# Technical Specification

Filter model	Pipe size inches	Inlet flow rate*		Dimensions mm				Weight Kg
		Nm/hr	SCFM	A	B	C	D	
NG0006WS	1/8	12.1	7.6	50	17	157	60	0.3
NG0015WS	1/4	30.3	18.9	50	17	157	60	0.3
NG0025WS	1/4	50.9	31.7	70	23	231	70	0.6
NG0032WS	3/8	65.5	40.8	70	23	231	70	0.6
NG0050WS	1/2	103.1	64.2	70	23	231	70	0.6
NG0070WS	1/2	144.3	89.9	127	32	285	80	1.7
NG0125WS	3/4	257.1	160.2	127	32	285	80	1.7
NG0175WS	1	360.2	224.4	127	32	285	80	1.7
NG0280WS	1 1/4	577.2	359.7	140	41	476	85	3.0
NG0320WS	1 1/2	659.7	411.0	140	41	476	85	3.0
NG0400WS	1 1/2	824.6	513.8	170	53	508	100	4.9
NG0700WS	2	1441.9	898.4	170	53	508	100	4.9
NG0850WS	2 1/2	1751.1	1091.0	220	70	420	100	8.0
NG1500WS	3	3092.3	1926.72	220	70	420	100	8.0

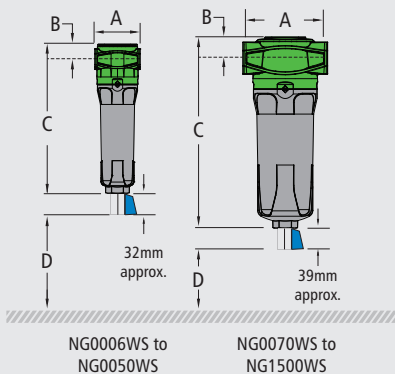
\* Rated flow at 7 barg, reference conditions 1 bar (a) 20°C, calculated using 0.68 Gas Density Factor

Grade	WS	
Minimum recommended operating temperature	1°C	34°F
Maximum recommended operating temperature	120°C	248°F
Maximum working pressure - Manual Drain	20 barg	300 psig

Pressure correction factor	for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)	20.7 (300)
7 barg - correction factor	0.76	0.84	0.92	1.00	1.07	1.19	1.31	1.41	1.51	1.73

## Technical Notes

- All CNG Filters are fitted as standard with Manual Drain Valves; VMDV25 on models NG0006WS to NG0050WS, VMDVE25A on models NG0070WS to NG0700WS, and VMDVE25M on models NG0850WS to NG1500WS. Standard filters can operate at 20.7 barg (300 psig) range at 120°C (248°F).
- Alpha CNG Filters are manufactured from cast aluminium alloy and are PED 2014/68/EU compliant for group 1 and group 2 gases.
- Threaded connections are Rp (BSP Parallel) to ISO 7-1 or NPT to ANSI/ASME B1.20.1 if supplied within North America. Rc (BSP Taper) to ISO 7-1 also available.
- For NPT threads, add the suffix N, e.g. NG0006NWS, and for RC threads add the suffix C. e.g. NG0006CWS.
- Walker Filtration genuine spare and aftermarket parts must be used, failure to do so will void product warranty. Walker Filtration shall not be held liable for damages suffered by the customer if Walker Filtration genuine CNG rated spare and aftermarket parts are not used.
- This range of filters is outside of the scope of the ATEX Directive as it is non-electrical equipment with no potential ignition hazards. They are limited to use to Category 2, Zone 1/21 or Category 3, Zone 2/22 applications and do not bear any ATEX marking. For specific requirements please contact your nearest Walker Filtration sales representative.



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